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**Title:** SYSTEM AND METHODS FOR PROVIDING  
AUTOMATIC CLASSIFICATION OF MEDIA ENTITIES  
ACCORDING TO CONSONANCE PROPERTIES

**Inventor:** Jeffrey S. Hoekman et al.

**Serial No.:** 09/900,059

**Filed:** July 6, 2001

**Docket No.:** MSFT-0580 (TEW/jjkeeler)

**Date Sent:** November 26, 2001

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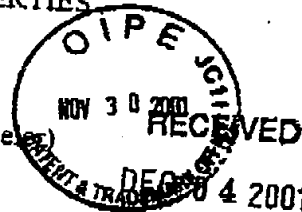
**Serial No.:** 09/900,059

**Filed:** July 6, 2001

**Docket No.:** MSFT-0580

**Date Sent:** November 26, 2001

(TEW/jjkeeler)



Woodcock Washburn Kurtz  
Mackiewicz LLP

DOCKET NO.: MSFT-0580/167506.2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Jeffrey S. Hoekman et al.

Serial No.: 09/900,059

Group Art Unit: 2171


Filing Date: July 6, 2001

Examiner: Not Yet Assigned

For: SYSTEM AND METHODS FOR PROVIDING AUTOMATIC  
CLASSIFICATION OF MEDIA ENTITIES ACCORDING TO  
CONSONANCE PROPERTIES

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TYPED NAME: Thomas E. Watson  
REGISTRATION NO.: 43,243

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- ☒ In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

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PATENT

- ☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐the first or ☐second After Final Submission, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
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- ☒ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☐ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:
- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

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- ☐ In accordance with §1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. §120 have been made in the instant application:
- ☐ Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. , filed .
- ☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

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This form is submitted in duplicate.

An English language abstract has been provided for any references which are not in the English language.

Date: 11/26/01

  
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Sheet 1 of 3

<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office				Docket No. <b>MSFT-0580/167506.2</b>		Serial No. <b>09/900,059</b>	
				Applicant <b>Jeffrey S. Hoekman et al.</b>			
				Filing Date <b>July 6, 2001</b>		Group <b>2171</b>	
<b>U. S. PATENT DOCUMENTS</b>							
<b>Examiner Initial</b>		<b>Document No.</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Subclass</b>	
	AA	5,918,223	06/29/99	Blum et al.	707	1	
<b>FOREIGN PATENT DOCUMENTS</b>							
<b>Examiner Initial</b>		<b>Document No.</b>	<b>Date</b>	<b>Country</b>	<b>Translation</b>		
					<b>YES</b>	<b>NO</b>	
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Sheet 2 of 3

<b>Form PTO-1449 Modified</b>		Docket No. <b>MSFT-0580/167506.2</b>	Serial No. <b>09/900,059</b>
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant <b>Jeffrey S. Hoekman et al.</b>	
U.S. Department of Commerce Patent and Trademark Office		Filing Date <b>July 6, 2001</b>	Group <b>2171</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
<b>AB</b>	Chen, A.L.P. et al., "Query by music segments: an Efficient Approach for Song Retrieval," <i>Proceedings of International Conference on Multimedia and Expo.</i> , New York, NY, July 30-August 2, 2000, 2, 873-876		
<b>AC</b>	Chen, J.C.C. et al., "Query by Rhythm: an Approach for Song Retrieval," <i>Proceedings Eighth International Workshop on Research Issues in Data Engineering. Continuous-Media Databases and Applications</i> , Orlando, Florida, February 23-24, 1998, 139-146		
<b>AD</b>	Davies, S.C. et al., "An Adaptive Technique for Automated Recognition of Musical Tones," <i>Conference Record of the Thirtieth Asilomar Conference on Signals, Systems, and Computers</i> , Pacific Grove, California, November 3-6, 1996, 2, 1138-1141		
<b>AE</b>	Francu, C. et al., "Distance Metrics and Indexing Strategies for a Digital Library of Popular Music," <i>Proceedings of International Conference on Multimedia and Expo.</i> , New York, NY, July 30-August 2, 2000, 2, 889-892		
<b>AF</b>	Goldberg, I. et al., "The Ninja Jukebox," <i>2nd USENIX Symposium on Internet Technologies and Systems</i> , Boulder, Colorado, October 11-14, 1999, 37-46		
<b>AG</b>	Hoffbeck, J.P., "A Method for Hiding Useful Information in Digital Audio Signals," <i>Computers in Education J.</i> , 2001, 11(1), 7-11		
<b>AH</b>	Logan, B. et al., "Music Summarization Using Key Phrases," <i>Proceedings of 2000 International Conference on Acoustics, Speech and Signal Processing</i> , Istanbul, Turkey, June 5-9, 2000, 2, 749-752		
<b>AI</b>	McNab, R.J. et al., "Towards the Digital Music Library: Tune Retrieval from Acoustic Input," <i>Proceedings of the 1st ACM International Conference on Digital Libraries</i> , Bethesda, Maryland, March, 1996, 11-18		
<b>AJ</b>	McNab, R.J. et al., "Tune Retrieval in the Multimedia Library," <i>Multimedia Tools and Applications</i> , 2000, 10(2-3), 113-132		
<b>AK</b>	McNab, R.J. et al., "The New Zealand Digital Library MELody inDEX," <i>D-Lib Magazine</i> , 1997, <a href="http://www.dlib.org/dlib/may97/meldex/05witten.html">http://www.dlib.org/dlib/may97/meldex/05witten.html</a> , 8 pages		
<b>AL</b>	Ozimek, E. et al., "Thresholds of Perception of Irregular Signal Frequency Changes," <i>Archives of Acoustics</i> , 1985, 10(2), 123-141		
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	

Sheet 3 of 3

<b>Form PTO-1449 Modified</b>		<b>Docket No.</b> <b>MSFT-0580/167506.2</b>	<b>Serial No.</b> <b>09/900,059</b>
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U.S. Department of Commerce Patent and Trademark Office			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>AM</b>	Rabson, G. et al., "The National Tune Index: a Systems Overview," <i>Computers and the Humanities</i> , 1981, 15(3), 129-137	
	<b>AN</b>	Schudermann, B., "Quantity versus quality. II. Setting up a database for a quantitative analysis of German/Dutch language mixtures in late medieval song MSs," <i>Proceedings of the 5<sup>th</sup> International Conference and Exhibition on Multi-Lingual Computing</i> , Cambridge, UK, April 11-13, 1996, 7/6/1-11	
	<b>AO</b>	Sonoda, T. et al., "A WWW-based Melody Retrieval System," <i>1998 International Computer Music Conference</i> , October, 1988, 349-352	
	<b>AP</b>	Spyridis, H. et al., "Fourier Analysis and Information Theory on a Musical Composition," <i>Acustica</i> , 1983, 52(4), 255-262	
	<b>AQ</b>	Tang, M. et al., "Selection of Melody Lines for Music Databases," <i>Proceedings 24<sup>th</sup> Annual International Computer Software and Applications Conference</i> , Taipei, Taiwan, October 25-27, 2000, 243-248	
	<b>AR</b>	Umemoto, T. et al., "Construction of Transcription System and Comparison of Peak Extraction Methods," <i>Trans. Of the Soc. Of Instrument and Control Engineers</i> , 1993, 29(10), 1227-1231 (English language abstract included)	
	<b>AS</b>	Yang, C.Y. et al., "Korean Folk Song Retrieval Using Rhythm Pattern Classification," <i>Proceedings of Fifth International Symposium on Signal Processing and its Applications</i> , Brisbane, Australia, August 22-25, 1999, 1, 123-126	
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	